#### 2000-2001 GEPA Sample Form Science Score Interpretation Guide

The New Jersey Department of Education is pleased to provide the 2000-2001 GEPA Sample Form as tools for gauging students' achievement on the administration of these tests. Although the sample forms contain previously tested items and are built to specifications similar to the "real" test, they are <u>not</u> the "real" test. As such, these sample forms are <u>not</u> intended to predict student scores on the GEPA. There are several reasons for this:

- 1. Student performance on this or <u>any</u> test will vary from day to day.
- 2. The sample form will be given under less standardized conditions than the conditions used for the live tests.
- 3. The sample forms will be scored locally without the extensive training and accuracy controls used to score the live tests.
- 4. Continued instruction will occur in the time between the administration of the sample form and the live test.

However, this sample form <u>can</u> be used to screen for students who may have difficulty reaching the Proficient level. Also, by examining questions that a student or group of students (e.g., a classroom) answer incorrectly, teachers can identify possible strengths and weaknesses in specific skills. The scoring key provides links to the *Core Curriculum Content Standards* and the *Directory of Test Specifications and Sample Items* to help you understand the content, skill and process domains that each question represents.

Individual student performance on these sample forms can be interpreted as follows:

Level	Score Range	Indication		
1	0 – 30.5	There is a good chance that the student would <u>not</u> score at the Proficient level.		
2	31.0 – 3.5	There is a good chance that the student would score just above or just below the Proficient level cut-score.		
3	36.0 – 52.0	There is a good chance that the student is at or above the Proficient level.		

The New Jersey Department of Education highly recommends that teachers use sample form results as only one piece of information when determining the instructional needs of a student or group of students.

## 2000-2001 GEPA Sample Form Science Scoring Key

Item #	Correct Answer	Descriptors (Content Cluster, Knowledge Area, Skill)				
1	A	Life, Environment, Systems				
2	В	Life, Structure of Living Things, Systems				
3	С	Physical, Force and Motion, Conceptual Understanding				
4	D	Earth, Universe, Systems				
5	В	Life, Environment, Systems				
6	A	Physical, Properties of Matter, Problem Solving				
7	A	Physical, Energy, Systems				
8	D	Physical, Energy, Systems				
9	D	Earth, Structure of the Earth, Problem Solving				
10	C	Physical, Energy, Conceptual Understanding				
11	В	Life, Diversity, Systems				
12	A	Earth, Structure of the Earth, Problem Solving				
13	A					
14	D	Life, Diversity, Conceptual Understanding				
15	В	Physical, Force and Motion, Problem Solving  Earth, Structure of the Earth, Problem Solving				
16	See Rubric	Physical, Properties of Matter, Problem Solving				
17	В	Life, Structure of Living Things, Conceptual				
40		Understanding				
18	В	Earth, Structure of the Earth, Problem Solving				
19	В	Physical, Energy, Problem Solving				
20	D	Earth, Structure of the Earth, History of Science				
21	В	Life, Structure of Living Things, Conceptual				
00		Understanding				
22	C	Earth, Universe, Systems				
23	A	Physical, Energy, Mathematics				
24	С	Physical, Force and Motion, Problem Solving				
25	С	Physical, Properties of Matter, Technology				
26	В	Earth, Universe, Mathematics				
27	D	Life, Environment, Systems				
28	В	Earth, Universe, Systems				
29	D	Life, Structure of Living Things, Systems				
30	Α	Physical, Atoms, Conceptual Understanding				
31	В	Earth, Structure of the Earth, Problem Solving				
32	See Rubric	Earth, Structure of the Earth, Systems				
33	Α	Physical, Force and Motion, Problem Solving				
34	С	Life, Environment, Technology				
35	В	Earth, Structure of the Earth, Systems				
36	D	Physical, Properties of Matter, Problem Solving				
37	С	Earth, Universe, Systems				
38	С	Life, Environment, Conceptual Understanding				
39	В	Physical, Properties of Matter, Problem Solving				
40	Omitted					
41	С	Earth, Universe, Conceptual Understanding				
42	А	Physical, Properties of Matter, Problem Solving				
43	А	Physical, Force and Motion, Problem Solving				
44	D	Life, Diversity, Problem Solving				
45	А	Physical, Force and Motion, Conceptual Understanding				
46	Omitted					
47	D	Life, Environment, Conceptual Understanding				
48	See Rubric	Life, Environment, Systems				

#### **Scoring Instructions**

Official scores for open-ended items on a live test are derived from two independent readings of each student response. If you do not plan to use a second scorer, simply assign the same score twice. Responses that are unintelligible, not in English, off topic, not responsive, or only a partial fragment are assigned a score of zero points. If you have difficulty deciding on a score point or feel a particular response lies between two score points on the rubric, you may assign "split" scores (i.e., 2 and 3). Based on the item types, the two scores are either added together or averaged (which can result in half-points) in computing the total number of points earned.

To compute the total score, add the following:

- Count one point for each correct answer on multiple-choice items (maximum of 43 points possible)
- Scores of open-ended items 16, 32, and 48 (<u>average</u> of two scores for each item minimum of 0, maximum of 3 points possible for each item or 9 total maximum points possible)

Total of 52 maximum points possible.

\*Refer to the *Directory of Test Specifications and Sample Items for the Grade Eight Proficiency Assessment (GEPA) and High School Proficiency Assessment (HSPA) in Science*, published by the New Jersey Department of Education in February 1998 for further information.

#### 2000-2001 GEPA Science Item 16 Pond/Lake Rubric

#### 3 points

The student:

• states or clearly implies that the lake and the sandstone will increase in temperature

and/or

that the sandstone heats up more rapidly than the lake.

or
that soil and water absorb heat from the sun and/or that water absorbs less heat than land.

• Offers at least one valid reason that the prediction might be incorrect.\*

(Answer may include minor but not major factual errors.)

2 points

The student's response includes two of the three points.

1 point

The student's response includes one of the three points

OI

correct information given is compromised by the quantity of incorrect information.

0 points

FR

The response is incorrect, irrelevant, or inappropriate.

\*Possible valid responses include, but are not limited to

- different bodies of water (depth, size)
- different shore (soil vs. stone)
- time (7:00-12:00 vs. ??)
- possible vegetation

The paper contained only a fragment of a response.

- different exterior temperature
- wind

Additionally, students' papers may be unscorable for the following reasons:

	· · · · · · · · · · · · · · · · · · ·
<u>Code</u>	Reason
NR	No Response
OT	The paper was off-topic.
NE	The paper was in a language other than English.
WF	The paper was written in the wrong format, e.g., the student responded with a poem
	instead of an essay.

Unscorable student papers receive a score of 0.

#### **GEPA - SECURE MATERIAL - DO NOT COPY**

DIRECTIONS FOR QUESTION 16: Respond fully to the open-ended question that follows. Show your work and clearly explain your answer. You may use words, tables, diagrams, or drawings. Write your answer on page 3 of your answer folder.

16. A classmate measures the temperature of pond water and the soil that surrounds it every hour for a period of five hours on a sunny day. The measurements are shown in the chart below.

Time (Hours)	0	1	2	3	. 4	5
Water Temperature (°C)	16	17	18	19	21	23
Soll Temperature (°C)	16	16	19	21	23	26

The next day, at a nearby lake that has a shore of sandstone, you measure the temperature of the sandstone and water at 7 a.m. You find that both have a temperature of 13° C.

If it is sunny all day:

- What do the results of the experiment at the pond predict about the temperature of the sandstone and the lake water at noon?
- Explain your answer.
- · Explain why your prediction, based on the data, might be incorrect.

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Item: 16 Score: 0 Sample #: 1

16.

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\ \ \ \ The results of the experiment at the point predict is about the temperature of the sandstone anothe water at noon, that it'll be summy.

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Score Point: 0

# OPEN-ENDEDIRES

Item: 16

Score: 0
Sample #: 2

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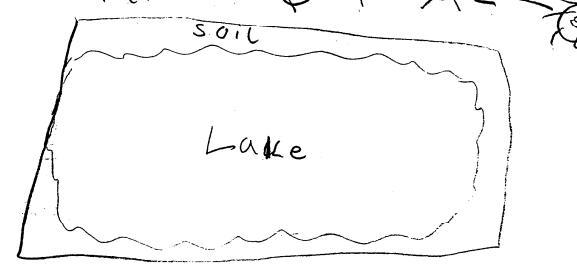
17

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They predict that as the lake

gets warmer the water gets soaked out by the soil and then it

heats the Soil here is and example. The Soil here is



at noon the sun is at its hottest point and it is directly over the Lake so at 7 am. it vill be cold but Shours later it will have gotten in correct because if it is could be the Gun really is not out also could be Storms could affect the

**Score Point: 0** 

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SECURE MATERIAL - DO NOT

**GEPA Science** 

SCIENCE - PART 1

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Item:

16

OREN: ENDED RES

Score: 0 Sample #: 3

16.

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I think the results from the experiment would be 20°C. I feel this way because It is a surry day and on surry days things intend on expansing in temperature. Board on the data, my prediction might be incorrect because.

Pana ?

### SCIENCE PART 1

Item: 16

**EXORENIENDED RE** 

Score: 1 Sample #: 1

16.

The results show that because the pond is suffer, it closesist take as long to warn up.

Spond



the lake has more area, + traces more heat to warm it up.

The soil of the point is more dense then the syndstone. It will absorb more heat. The sandstone will not about "as much heat because the heat will probably pass through its.

my prediction may be incorrect because the person who measured the person who measured the person could have your there later in the they when the sen had been up. From a while.

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SECURE MATERIAL - DO NO

OPENIENDED PR

**GEPA Science** 

16

Item: Score:

Score: 1 Sample #: 2

16.

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6 0 The results of the tempetures are that the sand Lorms Faster then the motor,

17-60000

Score Point: 1

Page 3

GRANIANDED RES

**GEPA Science** 

16

Item:

Score: 1

Sample #: 3

16.

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SCIENCE PARIS

The experiment shows that the soil heats quicker thus the worter does when the time reacher noon.

- I got my answer by comparing the temperature. I noticed that when the closer it got to noon the soil temperature was greater then the water.
- that the soil will still be wormer because it is a solid and can trapheat. On the other hand the water is liquid and can not hold the heat very well my answer might also be incorrect because it depends what time of the year it is.

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ESCIENCE PARTY OPEN-ENDED RES Item: 16 Score:

Sample #: 1

16.

0001-00192

(N O

I predict that the temperature of the sundature will be greater then the water because the sun light heats the rock faster then the water because the son - has to to heat all the water and the rock are small then the wester. If the wester is deep the sun does not go down the bottom of the water and does not heat as fast. The rock is smaller and might heart fast. I might be incorrect because sandsfore if heated to much it will blow up I know that because it happen to me. So sand stone minght not condict heat as much.

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SCIENCE PART 1

Item:

16 Score: 2

OPEN-ENDEDIRES

Sample #: 2

16. If the temperature is 13°c at 7am. on a sunny day the next day, by noon the water and soil temperature will increase. The water temperature may be 20°c and the soil temperature may pe 23°C.

I think the water temperature may be 20°c because the graph shous in I hour the temperature increases by 105 then the and hour by 100, the 2nd your by 100 the detu your ph 300 and the 5th hour by 20c. When you follow the same procedure you get 200c. I think the soil temperature mai be 23%, because I followed the Procedure.

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**Score Point: 2** 

SCIENCE PART 1

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4

OPEN-ENDED RESE

Item: 16 Score: 2

Sample #: 3

the results at the experiment at the pond predicts the temperature at the lake at noon will be 200c. I got this temperature at the lake at noon will be 200c. I got this to become at the pond in the beginning the temperature at the lake was 13°C and it may increase to 20°C at the lake was 13°C and it may increase to 20°C over 5 hours. Hy prediction may be wrong because the pond data may not nove been taken at it am which means the sun may have rose at a different speed. I may also be wrong because the pond is surrounded by soil and the lake is surrounded by seek ment the last reason I have that I may be wrong is may be eathern the last reason I have that I may be wrong is may be that either the lake or the look of the last reason I have that I may be wrong is may be that either the lake or the last reason I have that

Page 3

SCIENCE PART 1

OPEN ENDED RES

Item:

3

Score: Sample #: 1

16. The results of the experiment at the poind preduct that the temperature of the sanastone and the late water at moon will be around 23°C. I think this way because the pond water and soil temperature both aemost increased 10°C for a period of 5 hours on a sunny day. Most likely it will increase because that's what happened to the pond. also after 5 hours on a sunny day, the temp. usually goes up by moon.

Based on the dota quer, my preduction could also be incorrect. First, the first dota is at a pond and the next day at a late. It's different water second, the temperature may not be as warm or sunny as the day before and only go up 400 5°C.

**Score Point: 3** 

\*SCIENCE PART-1-

Item: 16 Score: 3

OREN-ENDED RE

Sample #: 2

The results of the experiment at the pond predict that the temperature of the sandstone and the laxe water will increase at noon. In the chart above the temperature of the water 4 soil increased each hour, so at a nearby laxe it should do the same my prediction could be incarect because the sondstone could hold a different temperature than the laxe water and could start to decrease. Because we are testing two different variables sandstone and soil, My predictions can be incorrect.

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Score Point: 3

SCIENCE PART 1

16.

Item: 16

OPEN-ENDED RE

Score: 3
Sample #: 3

The results of the experiment at the pond predict that temperature of the water will be 23°C and the sandster will be 26°C at noon. This is because the same experiment, done the day besome revealed these results, and if both days have the samet, the antemperatures should be equal in order well. My prediction could be incorrect because on day a, the temperature of sandstone is being calculated, not soil. Also, the size of the lake could differ from the size of the pond, causing one to warm more rapidly than the other.

00053-7

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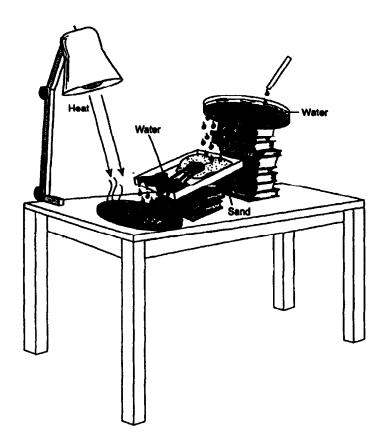
#### 2000 GEPA FIELD TEST SCIENCE Item 32 Water Cycle Rubric – Revised 06/00

#### Sample Response

The step that is left out is condensation. This is the process by which water vapor (or evaporated water) condenses and becomes water (or solid) again. Without condensation water would have no way of returning to the ground after evaporating.

- 3 Points
- Student successfully completes the task by identifying condensation as the missing step, and by describing that condensation is the process by which water vapor (or gas, or air) condenses and becomes water again. Also explains that without condensation water would have no way to return to earth after it evaporates. Must contain the work condensation.
- 2 Points
- Student adequately completes the task by identifying the missing process with or without the term condensation, and by describing that condensation is the process by which water vapor (or gas, or air) condenses and becomes water again or identifies condensation and explains water would have no way to return to earth after it evaporates. Identifies the missing process with or without the term condensation.
- 1 Point
- Student completes the task by identifying condensation as the missing step or gives a partical explanation that does not complete the process and does not identify the process. All other explanations are unclear or inappropriate.
- 0 Points
- Attempts the task, but the response is incorrect, irrelevant, or inappropriate.

DIRECTIONS FOR QUESTION 32: Respond fully to the open-ended question that follows. Show your work and clearly explain your answer. You may use words, tables, diagrams, or drawings. Write your answer on page 15 of your answer folder.



The above apparatus models the workings of the water cycle, but one step in the cycle is left out.

- · Identify the missing step.
- · Describe what happens during that step in the water cycle.
- · Explain why the cycle would cease to exist if this step were left out in real life.

SECURE MATERIAL - I

**GEPA Science** 

**Item:** 32

SCIENCE - PART 4

Score: 0 Sample #: 1

**OPEN-ENDED** 

64. The water has to go back up and has to have some other place to fall. The water goes back down, We would all drown because, of all the water on Earth.

04743-7

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**SECURE MATERIAL -**

**GEPA Science** 

**SCIENCE - PART 4** 

Item: **32** 

Score:

**OPEN-ENDED** 

Sample #: 2

64.

The missing step is when the voater evaporates after the water goes into

The water woold convert from a liquid

3f the water didn't evaporate back, into a gas, then the cycle could never could rever again in the first place.

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**SECURE MATERIAL -**

**GEPA Science** 

SCIENCE - PART 4

Item: 32

OPEN-ENDED

Score: 0 Sample #: 3

In the step of the water cycle when you four the water on to the pan and put it in heat the water will evaporate. When you put water in the heat of its going to dissapende cause the heat dress of up.

I think the step that is left out is the temperature they are not going to find out the temperature of the heat.

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■ Page 15

**SECURE MATERIAL - D** 

**GEPA Science** 

SCIENCE - PART 4

Item: Score: **32** 

1

**OPEN-ENDED F** 

Sample #: 1

the step that's missing is the step when the evaporated water turms turns to dripplets to forma Cdoud. 64.

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SECURE MATERIAL -

**GEPA Science** 

SCIENCE - PART 4

Item:

**32** 

**OPEN-ENDED** 

Score: 1 Sample #: 2

64. The step that is missing is

71000-1410

32

SCIENCE - PART 4

Item:

OPEN-ENDED RE Sample #: 3

Score:

64.

The miss step is taking the water that

was evaporated back and using it again.

OThe straw has water fill, like a rain storm into a pan.

@ The pan bas holes in it which drops the "rain droplets" into a sheet pan.

@ The sheetpan, which is on a slant. has sand under where the water dalls so when the water slikes down it will bring some sand with it.

(9) Then the water falls isto a round pan which is didectly under allight.

on which will evaporate the water.

6) The proceduce will repeat over and over

The water would not go though the strew and they would have to find another way for water. Which would elefant the whole purpose, of the experiment.

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**SECURE MATERIAL** 

**GEPA Science** 

**SCIENCE - PART 4** 

**Item:** 32

2

Score:

**OPEN-ENDED** 

Sample #: 1

the water evaporats and forms a cloud unon the cloud gets big enough it starts to rain. You could not have rain without clouded so there would be no rain. Where would the evaporated water go it did not have to make a cloud?

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**SECURE MATERIAL** 

Item: 3

## SCIENCE - PART 4

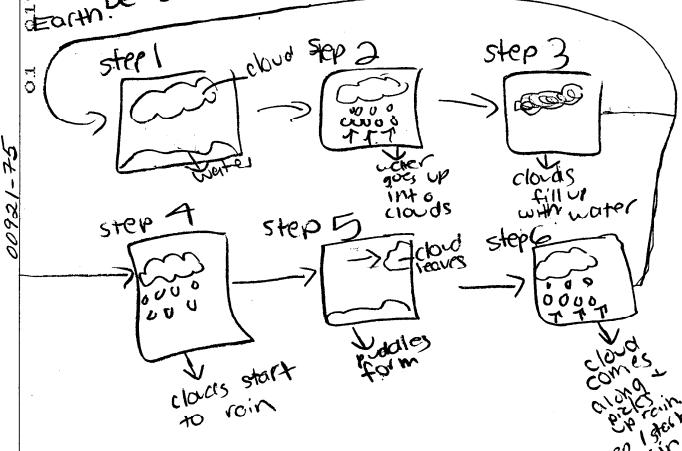
Score: 2

Sample #: 2

### OPEN-ENDED ILLEFONSE

of. The missing step in the model of how the water cycle works is when the clouds dispute the water that evaporated into the clouds.

The cycle would cease to exist if this step was missing. This is because first the ran is picked up from a doud. Then the rain falls to the earth. Next the rain gradually collects and is evaporated into the clouds again is evaporated into the clouds again without the last step, the cycle would without the last step, the cycle would be broken and the water would just stay on the broken and the water would just stay on



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SCIENCE - PART 4

Item:

**32** 

**OPEN-ENDED RE** 

Score: Sample #: 3

The missing step 15 condensation.

This occurs when a lake gets hot and evaporate into the air. When it's in the air clouds absorb the evaporated water making the cloud heavier when the cloud gets to heavy it tets the water out known as precipitation.

If this stepworldn't occur, there would be no rain

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Item:

**SCIENCE - PART 4** 

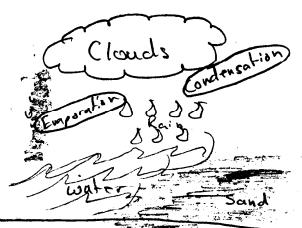
Score:

3

OPEN-ENDED Sample #: 1

64. The step of condensation is missing in this step evaporated water comes together forming clouds causing it to rain with out this step water could not fully circulate. The water would go up in the air never come back and gradually water would no longer exist on each.

with condensation



Condensation

SUN

SUN

No Condensation

Pain

Continues

Continue

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SECURE MATERIAL

Item: 32

**SCIENCE - PART 4** 

Score: 3
Sample #: 2

OPEN-ENDED ..\_.. 'J....

of the step that is missing in the model of the water cycle, is condensation. This is a crushed step, when evaporated water concluses in the atmosphere into clouds, and eventually into a prespitation. This occurs when the moist evaporated water rises up. When it meets with the rold air in the upper atmosphere, it cools and condenses into small droppets. It then condenses further to the point, it chops to the water to the point, it chops to the

If this step were left out, the water cycle would cease to exist. This is true because, i furter continued to emporate and never condense, then water would never a true to the Earth. As a result, we would love all the water, since it would never percipitate. This will cause all living organisms to die out, since weall need water for survival. That is why condensation is absolutly essential to the water cycle.

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## SCIENCE - PART 4

Item:

**32** 

Score:

3

**OPEN-ENDED RES** 

Sample #: 3

54. The missing step is condensation. During this step, at first the water must evaporate. Then the air temp must reach the dewpt temperature and the water will begin to condense. The water will condense into cloude of some sort. Then, for it to rain, the water vapor must condense on some. condensation nuclei lafter thear is saturated). Then, the raindrop would combine with other drops and when it is nearly enough, it would fall.

In real life, if this step was left out, the water would dissappear. The sun would shine and the water would evaporate, but it would not condense so the re would never be rain. That means at one point, all the water would evaporate and we'd have none left. That shows this cycle wouldn't exist.

Ö

#### 2000 GEPA SCIENCE ITEM 48 RUBRIC RABBIT/GRASS POPULATIONS

#### 3 points

The student makes predictions about both rabbit and plant populations at six months and five years with reasonable explanations. The answer must include the rabbit population response to the lack of food at five years; e.g., lower population of rabbits, migration, or death.

#### 2 points

The student makes reasonable predictions about both time frames with at least an implied explanation for one time.

OR

The student may have grasped all the elements of the answer but has failed to express or connect them clearly.

#### 1 point

The student makes a prediction or explanation of the population(s) for only one time frame.

#### 0 point

The response is incorrect, irrelevant, or inappropriate

DIRECTIONS FOR QUESTION 48: Respond fully to the open-ended question that follows. Show your work and clearly explain your answer. You may use words, tables, diagrams, or drawings. Write your answer on page 11 of your answer folder.



The only predator of the rabbit population in a meadow ecosystem has been removed.

- Predict what will happen to both the rabbit and the plant populations in the ecosystem in the first 6 months and after 5 years.
- Explain the reasons for your predictions.

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Item:

m: 48

Score: 0 Sample #: 1

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by another animal or they will go out have more body's. In the first 6 months the nabbit will probably just die. After 5 years the rabbit will probably just die. After 5 years the rabbit will have more badies or just die or be eaten.

I alroady explained my reason.

Score Point: 0

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Page 11

Score:

Sample #: 2

THE CHARLESTON

48.

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. The population of both the plant and animals will in crease over time.

. Bird will be in the trees and get good off the trees. When they good go the away they drop

the seed then that makes once plants. The rabbits will make and make more raports

1900 process will keep going and

Score Point: 0

Page 11

C

**SECURE MATERIAL - DO N** 

**GEPA Science** 

Item:

48

Score:

0

Sample #: 3

48.

They was try to fire other some that they was that they gain and they go away what are they gain grown. They was what are they gain grown.

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Item: 48 Score: 1 Sample #: 1

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The population of the rabbits would increase while plants decrease. After six months, the change would show but very slightly because not much time has passed. After five years, there will be various problems in the ecosystem Also since plants are one of the most important food, because it is second on the food web, many of the plant eating animals, or herbivores, will slowly die out. That means the population of the rabbits will increase. The population of the animals that eat the predators of the rabbit will also gradually dic out or find new prey. Overall the food web would be destroyed and eventually all animals would die out and there will be no ecosystem.

Score Point: 1

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SCIENCE - PART 3

OPEN-ENDEDIRE

Item: 48 Score: 1

Sample #: 2

48.

Since the only predator has been removed, the robbits are no longer threatened, O wer time, the robbits pap, will standily increase through reproduction. Because of this, the plants will decrease also. This can be a problem and enplains why we must have predators in every environment.

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Page 11

SCIENCE PARTS

OPEN-ENDEDIRE

Score: 1 Sample #: 3

Item:

If the predator of the rabbit population has been removed, there will probably be overcrowding by the rabbits, and then the plants they eat will be extinct.

Because without something eating the rabbits, they will keep producing and that will cause overcrowding. The food will become extinct because all of the rabbits will be eating it.

PREDATOR — DOVER DOPUSATION — DEATING ALL OF THE PLANTS AWAY

0035-72

2002-00112

SCIENCE PARTS

Item: 4 Score: 2 Sample #: 1

48.

I think that if the only predator of the rabbit dies out then the rabbit papalation will swell, and grass will be come sparse. Since the preditor of the rabbit is gone then the rabbit will keep reproducting and the area will be come overpopulated with rabbits their work be senough a rass to feed them all, and the grass will run tout.

2007/-1

22106

ESCIENCE PART 3

Item: 2 Score:

Sample #: 2

48.

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In the first six months everything will pretty much remain the same because rabbit reproduction either hosn't or has occurred. The only thing is the don't have to hide from anything or anyone just graze all they want with or without their babies.

The next five years will be a complete change. The rabbits will have reproduced five firmes since the predator has been eliminated ausing a major boom in rabbit population. The plant growth that they have been eating will have decreased immensity Since the rabbits probably eat faster than the plants can grow,

The reason behind my prediction is that without the predator the rabbits don't have to run and hide and eat just enough to satisfy so as to not be hungry and if noticed by predator hide. The rabbits will not have been Killed so more of them eat than before. so without the predator major damage will **CCCU** 

PLEASE DO NOT WRITE IN THIS AREA 

Page 11

SCIENCE PART 3

OPEN-ENDEDIRES

Item: 48 Score: 2

Sample #: 3

He meader the predetor of the Nabbit was taken out of the meader the nabbit population would increase to thousands. The plant population would decrease a lot because of all the carboits eating all of them. The coopen behind this is because if there is not any predator to keep the population of the carboits main tomed than there going to toep on repording.

The Rabbits would keep on eating the plants because that there bod source. The plant would become

20/05-72

SOLENGE PARTS

OPEN ENDED RE

Item: 48
Score: 3
Sample #: 1

18. In the First six Months that the rabbits have no predators, they will flourish. Then, after five years go by, the plants-will be gone and frabbits will begin to die out. I without predators, there will be no one to control the rabbit operpulation from getting out of hand, since the plants won't be able to produce enough food for all the rabbits, both the plants and rabbits will die out over time.

SCIENCE-PART 3

Item:

3

Score:

OPEN ENDED RE

Sample #: 2

\* During the first 6 months in which the predator of rabbits has been removed, the rabbit population will increase because it is no longer threatened by any organism. While the plant population will decrease because a greater number of rabbits are feeding of if, After five years, the plant Population will have severely diminished because of intense feeding by the rabbits. As its food source begins to grow scarce, the rabbit population will also decrease. As they compete for food, the rabbits will be forced to adapt to their changing environment, until eventually Only the fastest and healthiest cabbits, those who successfully adapted, will SULVIVE.

SCIENCE - PART 3

0003-000H1

O

4 1

Item:

3

Score:

Sample #: 3

If the predators are gone, the rabbit population will increase rapidly at 48. a very fast rate assince there is no threat of death, the rabbits will eventually their burnews. This increase of population growth over b months will be very large,
the many new young will need
the many new young will need
food to eat, and they will
eventually, over the course of
eventually, over the course of
about 2 or 3 years, eat all food there. The rabbits will need more Good to support their immense population and probably before 5 years will move to another a rea and eat what is there, like migrating.